## Thameside Test & Research Limited

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**Determination of Scuffing Resistance** 

Report Number:

T15/129-2

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Lab. Scheme Number: 2025

Client: **Thermagrip Ltd** 

Installer: **Thermagrip Ltd** 

Product for test: **Thermagrip** 

(300 x 300 x 3)mm checker plate coated with preform thermoplastic dressed with Description of specimen:

fused alumina

**Thermoplastic** Binder type: Aggregate type: **Fused alumina** 

Date of application n/a Date received 08-May-15

Location of Installation: **Thermagrip** 

## Test Method: Determination of scuffing resistance, TRL 176 Appendix G

Tested in accordance with TRL 176, as amended by BBA " Guidelines Document for the Assessment and Certification of High Friction Surfaces for Highways" March 2008. The material was scuffed at 35°C as specified for a TYPE 3 high friction surfacing.

Skid resistance value was determined using slider 96 (96 IRHD) since this is more simulative of hard solid tyres as found on fork lift trucks

Test results are compared to an untreated specimen of steel checker plate

Laboratory tests	Thermagrip	Untreated plate	BBA HAPAS requirement for TYPE 3 HFS
Initial Properties			
Texture depth (mm)	0.9	1.2	1.0 miminum
Skid resistance value (Slider 96)	61	51	65 minimum
Properties after scuffing at 35°C			
Texture depth (mm)	0.6		0.8 minimum
Loss in texture depth %	30.2		Information only
Erosion Index	0.0		15 maximum
Skid resistance value (Slider 96)	45		Information only

Remarks

Distribution:

Thermagrip Ltd The Stables

King Edward Street

Macclesfield Cheshire

**SK10 1AQ** Date: 07-Aug-15 Jonathan Hamp

Authorised By:

Approved Signatory

PG Shrubsole ( ) Principal Materials Engineer

Paul

Shrubsole

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## Test Method: Determination of scuffing, TRL 176 Appendix G

as amended by BBA " Guidelines Document for the Assessment and Certification of High Friction Surfaces for Highways" March 2008

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Specimen Number		129-2	
Identification of slab		129-2	
Texture depth of substrate (mm)		1.2	
Thickness of coating (mm)		2.6	
SRV before Scuffing		61.0	
Date of test		20/05/2015	
Time of test		09:00	
Test Temperature (°C)		35.4	
Tyre Pressure	Initial	3.1	
(Bar)	Final	3.1	
Tyre tread depth	Initial	1.5	
(mm)	Final	1.5	
Angle of Tyre		20°00'	
Surface	Initial	0.9	
texture depth (mm)	Final	0.6	
Loss of texture depth (%)		30.2	
SRV after Scuffing		45.0	
Erosion Inc	lex	0.0	

## After 500 wheel passes at 35°C



Description of visual condition

No faults or anomalies were observed